ELSEVIER

Volume 383, Numbers 1–2, 21 February 1995

JOURNAL OF
ELECTROANALYTICAL
CHEMISTRY

Contents

Regular papers

Assessing nonlinearity in impedance models
X. Wu and W. Zhang (Hebei, China) 1

The application of the MPB4 theory to the interface between two immiscible electrolyte solutions. 2. The differential capacitance of the water | 1,2-dichloroethane interface
Q. Cui, G. Zhu and E. Wang (Changchun, China) 7

Modelling electrode reactions using the strongly implicit procedure
R.G. Compton, R.A.W. Dryfe, R.G. Wellington and J. Hirst (Oxford, UK) 13

Ac stripping voltammetry from mercury film electrodes. Part 2. Comparison of theoretical and experimental results
F.J. Rodriguez Nieto, R.I. Tucceri and D. Posadas (La Plata, Argentina) 21

The determination of trace tin by cathodic stripping voltammetry with a Nafion®-modified electrode
S. Yang, H. Tian, D. Wang and Y. Tang (Henan, People's Republic of China) 31

Spatial distribution of electrodeposited lead nuclei on to vitreous carbon beyond their nearest neighbours
J. Mostany, A. Serruya and B.R. Scharifker (Caracas, Venezuela) 37

Electrodeposition and electrochemical properties of poly(*N*-vinylcarbazole) films on platinum electrodes
M. Skompska and L.M. Peter (Bath, UK) 43

Characterization of ice electrodes
H. Doe, T. Kobayashi and H. Sawada (Osaka, Japan) 53

Charge transfer and molecular distribution of $Ru(bpy)_3^{2+}$ complex dispersed in a Nafion® membrane as studied by in-situ spectrocyclic voltammetry
M. Yagi, K. Nagai, T. Onikubo (Saitama, Japan) and M. Kaneko (Ibaraki, Japan) 61

Interface condition of n-Si(111) during photocurrent oscillations in NH_4F solutions
M. Aggour, M. Giersig and H.J. Lewerenz (Berlin, Germany) 67

Stable and reversible electrochemistry of cytochrome *c* on bare electrodes. Part 1. Effect of ionic strength
Á. Szücs and M. Novák (Szeged, Hungary) 75

Mechanism of zinc electrodeposition from iminodiacetate electrolyte
V.S. Kublanovskii and V.N. Belinskii (Kiev, Ukraine) 85

Raman spectroscopic analysis of electrochemical behavior of propylviologen in Nafion®
M. Inaba, Y. Osa and Z. Ogumi (Kyoto, Japan) 91

The behaviour of passive films on carbon steel in sulfuric acid solutions
X. Guo, H. Imaizumi and K. Katoh (Niigata, Japan) 99

Digital simulation of chronopotentiometric and steady-state voltammetric curves at microelectrodes in the presence of a low concentration of supporting electrolyte
M.J. Pałys, Z. Stojek (Warsaw, Poland), M. Bos and W.E. Van der Linden (Enschede, Netherlands) 105

The electrocatalyzed reduction of fumaronitrile in aqueous solution by 4,4′-dimethyl-1,1′-trimethylene-2,2′-dipyridinium ion
K.S. Alber, T.K. Hahn, M.L. Jones, K.R. Fountain and D.A. Van Galen (Kirksville, MO, USA) 119

Voltammetric study of the oxidation of metal derivatives of buckminsterfullerene (C_{60})
S.A. Lerke (Collegeville, PA, USA), D.H. Evans (Newark, DE, USA) and P.J. Fagan (Wilmington, DE, USA) 127

Electro-oxidation of a chloride complex of Platinum(II) at a glassy carbon electrode
L. Xu, F. Li and S. Dong (Changchun, People's Republic of China) 133

Electrochemical properties of some benzoxazines: conditions for electropolymerization in alkaline medium
P. Audebert, M. Roche and J. Pagetti (Besançon, France) 139

Oxidation of formic acid on Pt(100) electrodes modified by irreversibly adsorbed tellurium
E. Herrero, M.J. Llorca, J.M. Feliu and A. Aldaz (Alacant, Spain) 145

In-situ impedance measurements during oxidation and reduction of conducting polymers: significance of the capacitive currents
G.S. Popkirov and E. Barsoukov (Kiel, Germany) 155

A study of the mechanism of oxygen reduction on bare palladium in 0.1 M LiOD solution using Pt ring–Pd disk electrode
J.-D. Kim, S.-I. Pyun, T.-H. Yang (Daejon, Korea) and J.-B. Ju (Seoul, Korea) 161

Underpotential–overpotential transition of silver overlayer on platinum. Part 1. Formation of a Pt + Ag surface alloy
A. Vaskevich, M. Rosenblum and E. Gileadi (Ramat-Aviv, Israel) 167

Electrochemical reactions of ethene on polycrystalline Au electrodes in acid solution studied by differential electrochemical mass spectrometry and isotope labelling
E. Pastor (Bonn, Germany) and V.M. Schmidt (Jülich, Germany) 175

Vibrational spectroscopy of carbonate adsorbed on Pt(111) and Pt(110) single-crystal electrodes
T. Iwasita, A. Rodes and E. Pastor (Bonn, Germany) 181

Preliminary notes

Far infrared spectroscopy of a platinum electrode "in-situ" using a synchrotron source
C.A. Melendres (Argonne, IL, USA), B. Beden (Poitiers, France) and G.A. Bowmaker (Auckland, New Zealand) 191

Confirmation by differential reflectance spectroscopy of the transition at 270 nm of CO chemisorbed on Pt in an acid medium
A. Cuesta and C. Gutiérrez (Madrid, Spain) 195

Book reviews 199

Author index 203

Subject index 205